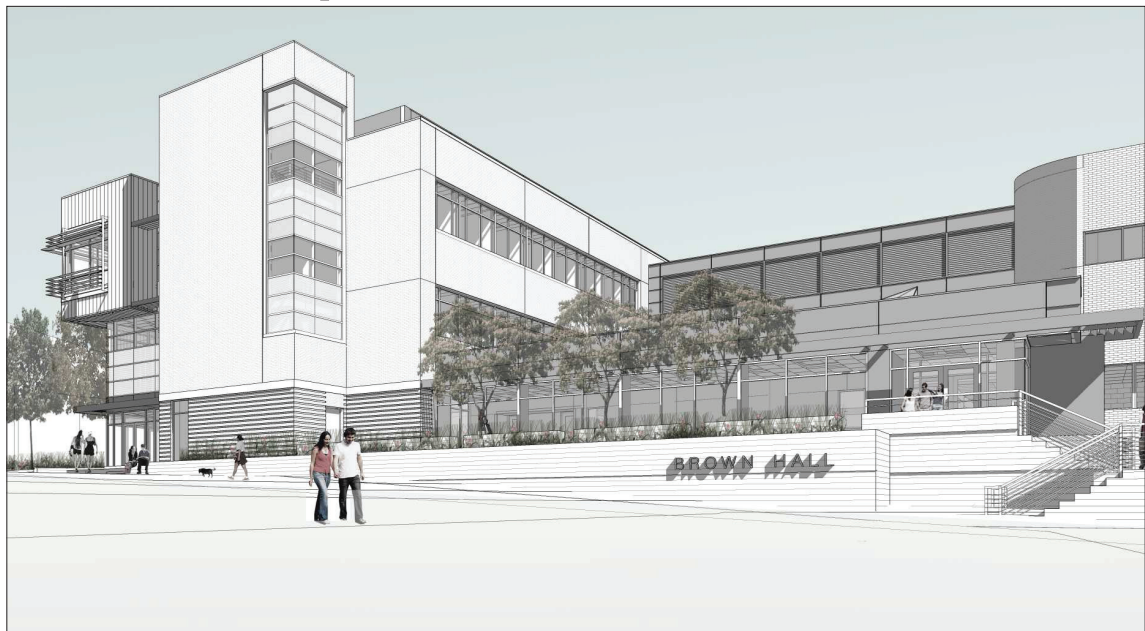


Bidding begins for Brown Hall improvements



An artist's rendering of what the Brown Hall expansion will look like.

Alec Westerman
Staff Writer

"I'm expecting that it will drag engineering on the campus forward," said Dr. Terry Parker, Engineering Division Director, regarding the Brown building expansion. "I just think it's the most exciting thing that's happened to campus since I've been here," Parker commented, noting that he was present for the construction of the Student Center and the Recreation Center.

As the new dorms come in to the southeast, the student center, the recreation center, and Brown building are expected to see a lot more traffic and 16th street is expected to become a busy crossroads.

Parker explained, "16th will become more pedestrian friendly... There will be road, but that will not be commonly used road," as part of coping with the increase in foot traffic.

The expansion will provide "classroom space and student space... desperately needed in my opinion." Parker continued, "As the campus has become more residential, students need places to study and be social."

Parker said, "We're replacing [classrooms] 201 and 204." In their place will be two more modern lecture halls, tiered rooms with dual projectors that better integrate with the expansion that will take their place. It turns out that replacing them was actually less expensive than salvaging them.

There will be two new labs, a new classroom in renovated Brown, and a new classroom in the expansion. Each classroom is in the 30 to 50-student range.

There will also be a computing classroom. It will be arranged to ensure good line-of-sight to the front of the room and will be equipped with three projectors.

There will be a new, large lecture hall on the end of the expansion

nearest 16th street. It will be oriented toward campus-wide use. It may serve as a place where students could watch movies, bring in speakers, or any number of things.

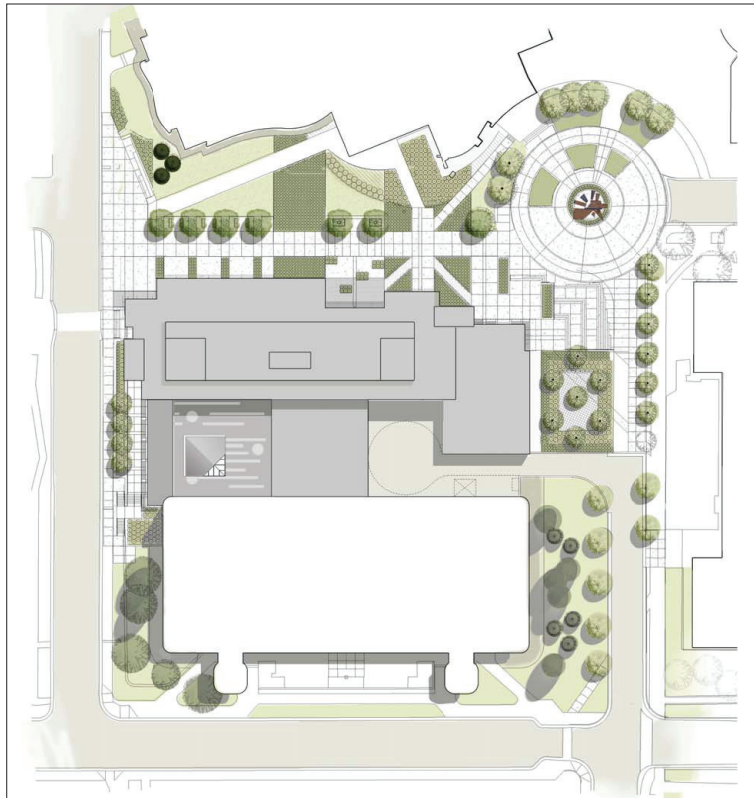
There will also be a large area available for campus-wide use. It will have tables and chairs, social areas, areas built more for studying, presentation areas, study rooms, and a coffee shop. Parker expounded, "The coffee bar area, that's really intended to go get a cup of coffee with your friends and discuss what's happened recently."

The bidding has begun, but it is a lengthy process. "We're forecasting a February 1 ground breaking," Parker explained what has happened and what is yet to happen by saying, "We're talking about an 18-month construction period and we're having an 18-month planning period." The expansion is expected to be complete in the summer of 2011.

Reflecting on the planning process, Parker looked back at how the process started: with a spreadsheet to determine relative floor space ratios for various usages. He explained that after that, thinking was mostly oriented towards getting as much floor space as possible. Parker elaborated, "We wanted to maximize the square footage we would get and minimize effort." However, the committee also made it a priority to integrate the new and old buildings in a tidy fashion.

In response to the construction process, the campus will have to adjust to a temporary classroom shortage. Parker said, "We're planning on losing [classrooms] 201, 204, and the bay area... It'll be an interesting 18 months."

All of this inconvenience, however, comes with great benefit. The campus will get an additional 60 to 72 thousand square feet of indoor space.



COURTESY OF THE COLORADO SCHOOL OF MINES

Provost sees great potential

Sara Post
Editor-in-Chief

"I see Mines becoming a real national player, not only in its education but its research," Steve Castillo explained. "We have 4800 students... the very largest engineering institutions have 8000... we're also getting to the size where our output of graduates is getting close to the very largest."

Castillo took the position of Provost over the summer after working as Dean of Engineering at New Mexico State University.

Mines is an exciting place to be right now, Castillo said; "Mines is an incredible institution with a tremendous amount of potential... [with] expertise in the extractive industries that is now becoming so much more than that."

Castillo explained that Mines is "really becoming a national powerhouse... [but] having the resources to continue to fund that growth is a huge challenge... we're on our way to playing with the very best, not only in education, where we've already been, but in research."

When asked about his vision for the school, he said, "The vision for growth is not complete. We have 3600 to 3700 undergraduates – the question is, how big do we want to be?" Castillo does not have an answer to that question, but he said that "at some point we'll have to level off" enrollment, and that "funding for both the teaching facilities is very important to the Colorado School of Mines." To that end, he said, the school is focusing on the new petroleum engineering building, Marquez Hall; "Once Marquez Hall is built, there will be more room for teaching facilities. Getting petroleum engineering and Chemical Engineering into separate buildings is very important." Both departments have grown a great deal in recent years, Castillo explained, and "we have to do something to meet that demand."

Castillo admitted that the school is going to have to come

up with a plan for dealing with increasing class sizes, but increased drop-out rates are not the answer. "I would like to see retention rates at 100%," he said.

Outside of being the Provost, Castillo serves on an advisory committee to the Engineering Directorate at the National Science Foundation, where he "helps chart the course of engineering research in the entire United States."

"That's a very, very nice appointment that takes me some time away from here, but Mines gets some representation at the national level," Castillo explained, "and I get to see what's happening at the national level with my other colleagues from places like Berkeley and MIT and Illinois and Stanford, and then help sort of guide the country in a certain way. That's really pretty cool."

He also serves on a committee at Sandia National Laboratories in Albuquerque, New Mexico. The committee "evaluates [the lab's] work in computational science and engineering on a yearly basis, so we do a review of all their research activities there - it's about a hundred million dollar portfolio of activities - and then we give them advice as to what we think about the effectiveness of their current work and maybe where they ought to look in the future," Castillo explained.

"Those are what I call professional service," Castillo said of these committees, "and in fact if you look at the faculty across the entire campus, all of them do those kinds of things. Most of them don't get paid for it, they do it because it gives them exposure and networking, but it's also a service to the engineering profession."

In his spare time, Castillo enjoys cycling, horseback riding, and spending time with his two children. "I do have a motorcycle," he said, "and I ride that from time to time when the weather's warm. I even ride it to work, where I get a little bit of ribbing here in Gugenheim."



SARA POST / OREDIGGER

Scientific discoveries this week

Huntsville, AL: NASA scientists have discovered a galaxy cluster 10.2 billion light years away – the most distant galaxy cluster ever found. Researchers used the Chandra X-ray Observatory to discover the cluster. Scientists theorize that the newly discovered cluster is nearly as old as a galaxy cluster can be, due to the time required to create galaxy clusters and the amount of matter present in the universe in the distant past. Scientists hope this new discovery will help to answer interesting cosmological questions, such as whether the cluster is still developing.

Tel Aviv, Israel: Scientists at the New Tel Aviv University have created a sensor array which they hope to use to predict natural disasters. The sensors, which are on the ground, in the air, and in orbit, are combined to predict when floods and forest fires will occur. By looking at the mineral content of soil, researchers hope to see changes which are related to natural disasters. By implementing these prediction systems, scientists hope to warn those at risk and save lives.

Los Angeles, CA: A new study from researchers at UCLA suggests that learning how to use the internet is increasing brain activity in older adults. By performing brain scans on study participants, scientists were able to conclude that two regions of the brain are positively affected by internet use. The improved regions of the brain are associated with decision making and working memory. Scientists hope that this discovery will help in the prevention of loss of brain function and dementia in older adults.

Kogarah, Australia: Researchers have found a new gene which may have lead to the development of speech in humans. The gene, called *tospeak* by scientists, was discovered in a family with speech problems. While *tospeak* doesn't appear to code for a specific protein, it seems to be important in larynx development. Some scientists dispute the importance of the study in relation to the development of speech, but the studies authors claim that developments in the larynx were just as important to speech development as developments in the brain.

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ASSOCIATED COLLEGIATE PRESS

Headlines from around the world

Emily Trudell, Staff Writer

In a settlement to drop charges of vandalism, battery, and grand theft after an incident with paparazzi at a Los Angeles airport in 2008, rapper **Kanye West** and his business manager Don Crawley agreed to complete 50 hours of community service.

An **ice skating bear** from the Russian state circus dragged circus administrator Dmitry Potapov across the ice during a rehearsal, killing him. Yevgeny Popov, one of the bear's trainers, attempted to save Potapov, but was severely injured including deep scalp lacerations and bruising to the brain.

Reverend Ed Hinds, aged 61, was found dead in the kitchen of his church's rectory in Morris County in New Jersey after failing to show up for Friday morning's mass. Wounds lead police to suspect homicide. Police have urged residents of the community to exercise caution.

Obama has declared the H1N1 outbreak to be a **national emergency**. By doing so, it allows the Department of Health and Human Services to bypass certain federal laws pertaining to the treatment of patients. Over 1000 people in the US alone have died to H1N1.

The Center for Disease Control and Prevention announced that production of the **H1N1 vaccine** is coming along slower than originally expected, producing only 30 million doses of the expected 40 million due to manufacturing delays.

Farmers in the region of **rural India** known as Bundelkhand have been found to be selling

their wives in order to pay off debts. The Indian government says that there is little support for women who face this atrocity, though it is very common in the region.

Mayumi Henne, the mother of the **"balloon boy,"** six year old Falcon Heene, told Larimer County investigators that she and her husband Richard knew the whereabouts of their son during the search, after reporting that Falcon might have blown away inside the giant saucer shaped balloon. The search involved police and military, and the media is now regarding it as a hoax to attract attention for a proposed reality TV show.

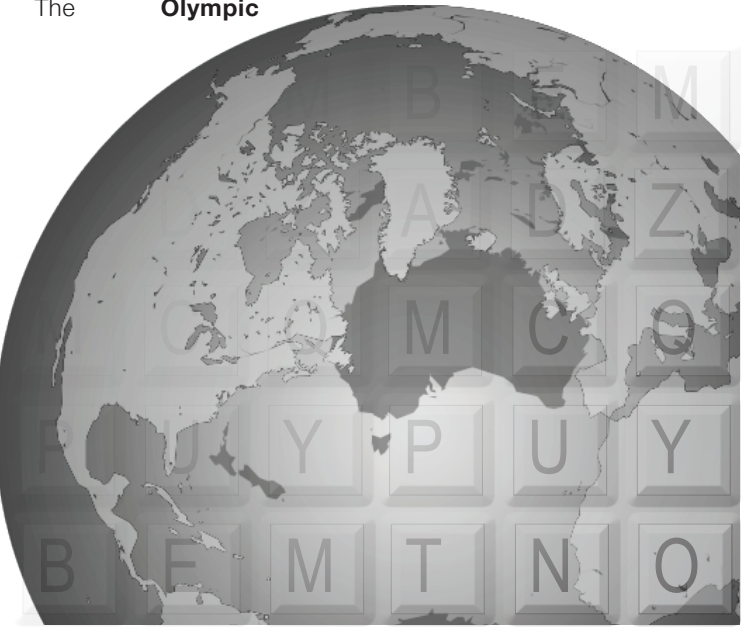
147 people were killed and 500 wounded when two **car bombs** detonated in Baghdad. This is the deadliest attack in the country in two years.

The **Olympic**

flame, for the 2010 Vancouver, British Columbia games, was lit in Olympia, Greece. Torch bearers will carry the flame throughout the world during its 106 day relay, ultimately finishing in Vancouver for the opening ceremonies on February 12, 2010.

The UN Food and Agriculture Organization said that **Lake Chad** could dry up within the next 20 years. The shallow lake located in Africa supports at least 30 million people. The U.N. is calling this a potential humanitarian disaster, and says that the drying up of the lake has been caused by climate change, and population pressure.

An earthquake of magnitude 5.8 struck at a depth of 35 kilometers off the north coast of **Papua**, Indonesia; no tsunami warning was issued.



Local News

Candace Sulzbach, a Colorado School of Mines lecturer, was named the 2009 Outstanding Faculty Advisor by the Society of Women Engineers. Sulzbach was recognized for outstanding contributions to engineering education and for mentoring and advising engineering students.

Officials from Golden and Denver advocated highway improvements for the US 6/Colorado 93 corridor between the two cities as an alternative to the suggested toll road being touted by others to a state legislative panel.

16th Street Mall was overrun with zombies this week for the 4th Annual Denver Zombie Crawl. More than 4,000 participants attended, setting a new world record for the most zombies at a crawl.

Jacob Dole was named the RMAC Men's Swimmer of the Week. Jesse Dennis and Sarah Moore have been named the RMAC Men's and Women's Diver of the Week for the second consecutive week.

Kyle Goracke has been selected as the Rocky Mountain Athletic Conference Defensive Player of the Week.

Sarah Moore qualified for Nationals in just her second collegiate meet. Moore established three new school records. Jesse Dennis also qualified for Nationals at the October 16th meet.

Administration revisits campus master plan

Andrew Aschenbrenner
Staff Writer

Change is in the air at the Colorado School of Mines, such as the change that brings new development of the campus. In 2004, a Facilities Master Plan was developed by Capital Planning & Construction to outline a framework for campus development. The plan is available for viewing at <http://oredig.us/2> alongside an outline of a Strategic Plan.

Five years later, the plan is being revisited. "A Master Plan serves as an important guide to lay out and plan the infrastructure needed to support the school and its programs," said President Myles Scoggins. "It is a living document, which should be updated periodically to reflect and accommodate any changes in overall campus strategies."

"We have recalibrated our Strategic Plan, so we need to make sure that our Master Plan is in line," said Kirsten Volpi, the Senior Vice President for Finance & Administration and the Chief Financial Officer for CSM. "It's a continual planning process."

In recent years, enrollment has grown substantially. "We have boosted the enrollment much quicker than we thought we would," noted Chris Cocallas, Director of Capital Planning and Construction. "Once [the recalibration] is done...we can determine what we need to accommodate the growth of the school."

With the growth of the student body, concerns have arisen about student space. "We have an obligation, if we're going to have more students, to provide the appropriate support services to go with it," stated Dan Fox, Vice President for Student Life and Dean of Students. "Anytime an institution grows, you can expect that there's going to have to be growth in terms of facilities."

The two main projects set to begin construction soon are an extension of Brown Building and a new dormitory at 17th and Ma-

ple. "The Brown expansion and the residence hall are on parallel schedules, and both will go under construction in the late winter/early spring, and should be complete by fall semester, 2011," said Cocallas.

Other projects to be completed in the near future include Marquez Hall, a renovation of Weaver Towers, and a pedestrian corridor on Maple and 16th streets. Marquez Hall will house the Petroleum Engineering department, and will be built at 16th and Arapahoe Streets when funding is finalized. A planned parking garage has been delayed because of funding issues.

A major element of the Master Plan is creating a more residential campus. "We really wish to make the campus more residential in nature, and that will require the erection of additional dormitories on campus," said Steve Castillo, Provost and Executive Vice President of CSM.

The new dormitory will add a significant number of beds, as well as student space, to campus. "The dorm is... phase 1 of a housing complex that is going to be in that area, and that will bring 291 new beds to campus," said Volpi. "The vision and the intent is to really bring Mines to a culture that is much more residential, that we provide close-in, comfortable, and adequate housing for all of our students."

The process of creating a more residential campus goes along with fostering community. "My hope is that [the Master Plan] will help create a stronger sense of community at the institution," said Fox. "My hope is that those facilities start creating more opportunity for students to interact or to get to know each other on a different level [than academic]." Added Castillo, "We feel as we start to build more of a residential campus, you will see more of a sense of community among the students here."

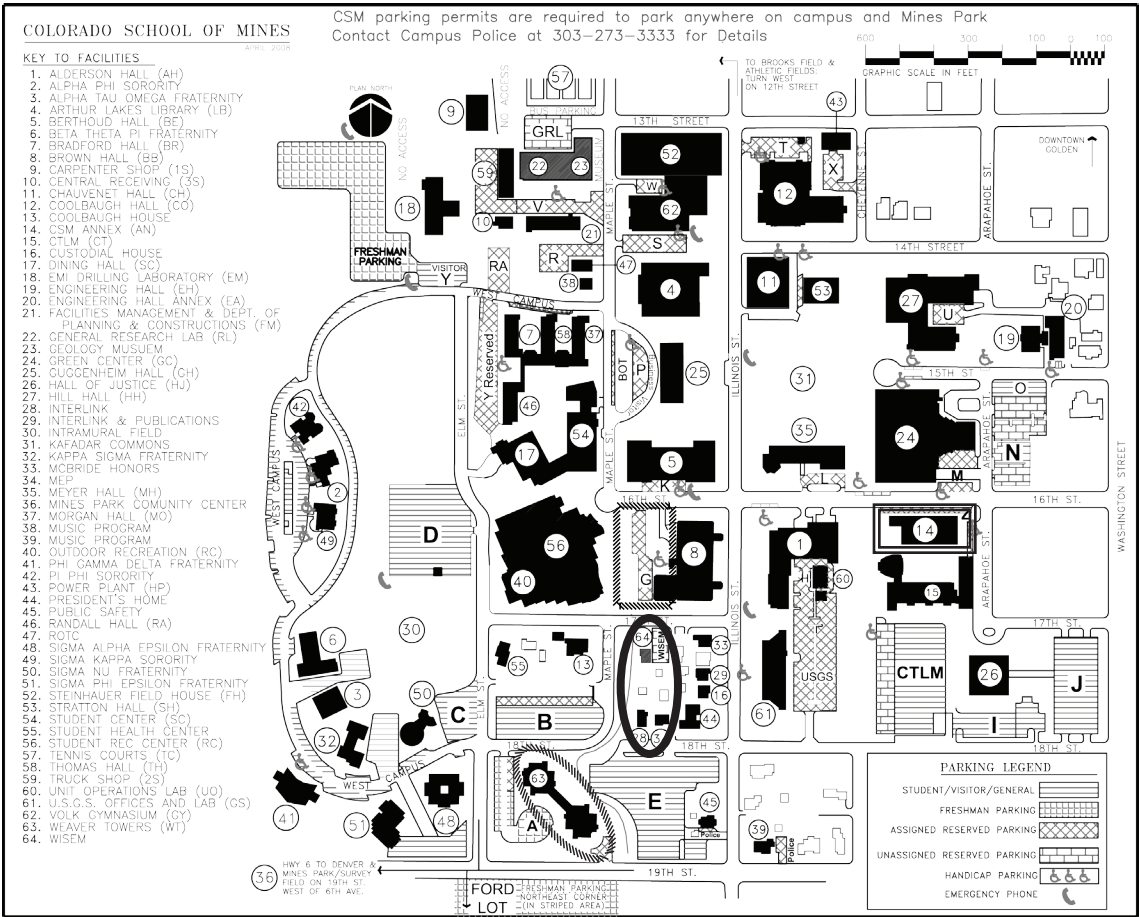
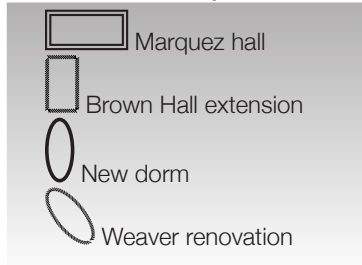
The pace of construction with the Master Plan is in part governed by funding. "When we bring forward a plan, we need to know how we plan on funding it," said Volpi.

As a state school, CSM is supported through state funds, but it has become necessary to rely more heavily on outside contribution and other streams of revenue. ASCSM passed a Capital Construction Fee in spring 2007 to help the school buy bonds to fund development, and those bonds will help build the Brown extension.

Volpi cited use of diverse types of funding to facilitate projects, "We're looking in many directions for funding: federal dollars, state dollars, donors, students, and we're even looking internally for whatever funds we have to support the capital structure," she said. "What we've done is asked, 'How do we look to ourselves to support the students, to support our mission, with more of a diverse revenue stream?'"

The Master Plan has already seen the creation of many projects, including the Student Recreation Center. A main complaint from students when the recreation center was built was that students who contributed money to the project never got to see it. Fox acknowledges that it's tough, but all involved really benefit. "If we want to be an innovative school, we have to continue to build and to push. I'm hoping that [students] understand that this is to benefit not only them but the institution as a whole," he said.

Castillo agreed, "We're trying to pay attention to student needs, and the needs of all the other pieces and parts of the Mines family, but ultimately, it still remains very simple. You have to graduate world-class people, and we have to produce world-class technology, and that's what makes you relevant. If you don't do that, people won't come here any more."



UNGI showcases Mines's capabilities

Jared Walters
Staff Writer

In late summer of this year, the Colorado School of Mines found an institute in the area of unconventional natural gas directed jointly by Jennifer Miskimins and John Curtis.

"Unconventional natural gas is a gas source that we have known about for over a hundred years," stated Miskimins. It is contained in certain types of rocks with very low permeability that fall under the category of unconventional reservoirs. According to Miskimins, "An unconventional reservoir is a reservoir that either needs some type of stimulation or enhanced recovery technique to actually make it productive." In other words, drilling a well into it will not produce gas flow.

Miskimins described stimulation, "A well will produce a certain amount of oil or gas naturally, and we do something to the well in order to stimulate the production from it." This can be used to extract a resource faster and in greater quantities than would be possible naturally. Miskimins said, "The majority of this is done through a process called hydraulic fracturing, which is pumping fluids at a very high pressure into the reservoir and literally cracking the reservoir rock to create more permeable flow channels to produce fluids easier."

The Unconventional Natural Gas Institute (UNGI) is hoping to become a "one-stop shopping place for companies and governments that are looking at unconventional reservoir development," said Miskimins. Based on the amount of gas contained in these reservoirs, this is a very valuable goal. Miskimins pointed out that unconventional reservoirs are very common "in the Rocky Mountain States of the US." She continued, "The US is not the only place that has them. They're very prevalent in Canada, South America, and even in the Middle East." She said that here at Mines, "We have researchers in at least 7, if not 8, departments working in the area of unconventional reservoirs."

Miskimins believes that this is a very important resource to develop. According to Miskimins, "Due to higher prices in oil and natural gas and due to the need for additional resources in those industries for energy and transportation purposes, we have had

to start evaluating these unconventional reservoirs that we've known about for a while but we've only been producing for twenty years."

Miskimins cited the shale gas development in the Marcellus Shale as an example, "[It is] a huge potential natural gas source, but it underlies the states of New York, West Virginia, and Pennsylvania... people are not used to having drill rigs in their back yards, so there are some issues with that." She also said that, "At the same time, it's a Catch-22 because the nation needs energy... we're hoping that the institute will become a source of information for discussion surrounding items like that."

The road to renewable energy is a long and challenging one, but Miskimins said that, "Natural gas is viewed by many as the cleaner burning, more environmentally and economically friendly version of a bridge fuel to get to renewable energy... it's very abundant,

The Unconventional Natural Gas Institute (UNGI) is hoping to become a "one-stop shopping place for companies and governments that are looking at unconventional reservoir development."

but it's abundant in these unconventional reservoirs."

Many who are working on the project have high hopes that "the institute will become something that politicians and policy makers will come to for the neutral but technical discussions on these developments," said Miskimins.

She also foresees that it will "open up possibilities for visiting scholars to come and study with us and vice-versa, both from other universities and from national labs." One such lab is the National Renewable Energy Lab (NREL). Miskimins pointed out "most people think NREL focuses only on renewable energy, but they also have an interest in natural gas for the same reasons that UNGI does. It's abundant and efficient."

Miskimins teaches many multi-disciplinary courses in the Petroleum Engineering department. These parallel her research in her areas of specialty, stimulation of oil and gas wells and hydraulic fracturing. She has worked in this area for almost 20 years, and has an industry background with Marathon Oil Company where she worked before getting her Masters and Ph.D. in Petroleum Engineering.

UNGI hopes to become a global center for knowledge and resources about this valuable, abundant resource, and to help the world along its path to renewable energy.

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New director boosts student groups

Andrew Aschenbrenner
Staff Writer

The Student Activities office has a new face courtesy of the newly created position of Associate Director of Student Activities for Student Organizations. Travis Smith started in this position on October 1 and now oversees all recognized student groups, including all Greek organizations and the Board of Student Organizations (BSO).

The new Associate Director position combined new responsibilities along with ones previously divided among multiple people. “This position’s main focus is student organizations. Having this singular focus should allow Travis to identify areas of improvement for the organizations and our office,” said Associate Dean of Students and Director of Student Activities Derek Morgan.

Smith previously worked at Pittsburg State University in Kansas, where he held the position of Program Coordinator for Campus Activities. At Mines, Smith will be focused on student groups. He listed his duties as “primarily... the organization and development of the BSO, as well as registration of student organizations and the oversight and advising of all of the Greek Life programs.”

Before this past summer’s reorganization of Student Life, a position dedicated specifically to student groups did not exist within Student Activities. “This position provides another staff member to concentrate on the needs of our Student Organizations,” noted Morgan. “Travis’ background and experience have prepared him well for working with students and organizations and he brings new ideas and energy to the office.”

Smith expressed high hopes that the dedicated position will help student groups. “I think it will be beneficial for everyone, in terms of having more face time with advisory support and less issues with communication. It’s definitely a good

thing,” he said. Added Morgan, “There are now over 140 active student organizations on campus and it is time for the Student Activities office to concentrate efforts on making sure the student organization experience is rewarding for all involved.”

Smith also spoke of the BSO as an important element in supporting organizations, “We have to stay within the vision and the mission of the organization, but I think there’s a lot of potential for the BSO to have a very, very good impact on all the students who are at this school; not just those who are currently involved in organizations, but also those who potentially would be.”

As for goals, Smith specifically cited boosting involvement in student groups. “I’m really looking forward to... helping [groups] become more effective for their members, and then providing more oppor-

tunities for our students to get involved on campus,” he expressed.

He also mentioned possibly increasing the number of groups. “I think we do really well with the number of student organiza-

tions that are represented here, but I think any time there’s a need, or there’s somebody who wants to do something that’s not represented by a group, I’d like to help them get it started,” he said.

Smith emphasized the importance of connection, asserting, “Just being involved with a student organization, something you enjoy doing with people that enjoy doing the same things you do, really helps you connect and it really helps you develop some social skills that will serve you long-term.”

Above all, Smith promoted the efforts of Student Activities to provide options on campus. He assured, “The opportunity is there, we just want people to take advantage of it, and we try to provide the best opportunities and the most appealing opportunities possible for our students to get involved and make those connections.”

that will serve as a public space. “We think lots of students will use it, not just engineering students, and that’s what it’s meant to be,” said Cocallas of the study spaces. He continued, “There will also be a new computer classroom down here and, as you can see, a robotics lab. As you can see we put this down here because this is kind of cool stuff to see so it will have a big glass front. You’ll be able to look in and see all the things that they’re doing in there.” A new lecture auditorium will round out the lower level of the Brown Building addition.

What the Brown Building addition lacks in continuity with any particular Mines building it makes up in green features. “This building will have a lot of daylighting and a lot of natural light. It will be a LEED Silver building and if we can squeak a few more points out it may become a LEED Gold so that’s how we’re

CSM celebrates Eid ul-Fitr

Daniel Haughey
Staff Writer

Traditional Middle Eastern food, such as fries, hummus, and chicken and beef shawarma were served as the Muslim Student Association celebrated this Eid ul-Fitr. Eid, as the holiday is commonly known, is the Muslim holiday that celebrates the end of Ramadan. Ramadan is the holy Muslim holiday of fasting, which lasts one month with all healthy Muslims partaking. Muslims fast from sunrise to sunset in order to learn resistance of temptation and to teach patience, modesty, and spirituality. The event was co-ordinated by Mohd Ishak, president of the Muslim Student Association.

To translate, Eid means “Festivity” and Fitr means “to break fast,” and “Eid ul-Fitr is the largest event in the Muslim calendar,” according to Ishak. As part of the celebration, the day before the Eid begins Mus-

lims make “zokat,” or donations of food to the poor so everyone will have food for the celebration. However, Eid is not all about food. It is a time for Muslims to visit their families and friends as well as the graves of their loved ones. One way for families to assemble is for one family to have an open house and to invite all their friends and family over for food. Children are sometimes given “Eidi,” which is a small sum of money for candy.

The event started at 7 PM and followed with a short reading from the Quran, which was done in Arabic, with a brief introduction which focused on the importance of the Eid celebration in Muslim culture. This was followed by a presentation given by Mohd Ishak, titled “Islam and Science.” Ishak emphasized the importance of knowledge in Islam and quoted the prophet Mohammed, stating that a Muslim should “seek knowledge from

the cradle to the grave.” He also stated that Muslims are obligated to seek knowledge and truth and emphasized “a scholar’s ink is more valuable than a martyr’s blood.” Ishak pointed out that the scientific knowledge presented in the Quran has only been recently scientifically proved. Ishak mentioned important contributions from Muslim scholars such as Al-khwarizmis, who made contributions to mathematics and the sciences. A free book titled *A Brief Illustrated Guide to Understanding Islam*, by author I.A. Ibrahim, was made available to attendees. This book is written for non-Muslims to help them understand Islam.

Following the presentation, traditional Islamic foods were served and the attendees spent the rest of the evening in conversation among themselves, discussing the Muslim culture while enjoying the excellent food.

Oil prices increase, consumption decreases

Kevin Lock
Staff Writer

According to Dr. Philip H. Stark, due to recent demand fluctuations, “We have the largest excess oil capacity that we have seen in almost a decade.” His lecture was an informative piece about how the global economy, and more specifically, the global recession, has been tied to the fluctuations seen in gas and oil prices. Production is still higher than demand throughout the world due in large part to conservative spending trends as a result of the harder economic times.

As far as the recovery is going, Stark believes that there will be a turnaround. However, it is likely that the unemployment curve will stay behind the recovery curve and will lag a bit. One of the largest factors is how long will the government be able to keep the loan rates down and when to draw the line for recovery. The US and China have seen the best recovery rates due to stimulus help. “The fiscal stimulus has indeed taken effect but only about 20% of the stimulus money has actually been spent to date,” said Stark. The largest factor that

has yet to be determined about the economic recovery is how the consumer will react and what their saving rates will be. Stark expects that there may be trends that match with the 1930’s where saving rates were much higher.

Much of the global market share is growing strongly in emerging Asian markets, such as China and India. “Asia is number one, the US is kind of along with the world and Europe will be lagging.” This is due to the large amounts of manufacturing and stimulus that is taking place in Asian countries. It is estimated that the economic recession has set energy consumption back about five years but the growing oil prices are due to a weakening US dollar and the perception that we are in peak oil, are creating a perception of supply shortage.

Stark predicts that as Asian markets emerge the US will lose GDP share in the world, “Looking at 2018, what happens is that we will see ‘other Asia’ (emerging

Asian markets like China and India) is going to pop up as the single leading produce is 2018. China will not have caught up with the US in terms of share of the GDP but this transformation is underway.” Stark feels that the world is changing and the policies in the Washington right now will strongly affect the future.

With growing markets gaining more GDP share, they are also demanding more energy so the polices should be aimed at reducing our per capita energy consumption.

As Stark talked about the future of energy consumption, he mentioned that many new movements will be in alternative sources like oil sands. However much of the consumption is down “in 2010, oil demand will start to come back up but it will really be 2011 or 2012 before it really recovers.” With the recent cutbacks and policy changes Stark feels that oil and gas prices, especially gas will stabilize once drilling and consumption rates have a chance to equilibrate.

We have the largest excess oil capacity that we have seen in almost a decade.”

ASCSM meeting covers building plans

Ian Littman
Assistant Business Manager,
Web Content

Last week’s ASCSM meeting had Campus Architect Chris Cocallas presenting plans for the Brown Hall addition and forthcoming residence hall. Both projects are slated to start in February and be completed eighteen months later.

The Brown Hall addition was tackled first. The expansion, primarily funded by student fees, will replace the current parking lot between Brown Building and the student Recreational Center. The expansion process will also involve the demolition of the Brown Building’s west classrooms. Additionally, the sidewalk between 16th and 17th streets will become a colonnade.

One primary fixture of the addition are two glass-enclosed rooms

dealing with sustainability,” Cocallas explained. “We’ll have some photovoltaic on it... [there] will be a photovoltaic lab. It will be a place where the things can be tested, they can be changed, different devices can be put up there.” The older part of Brown Hall will also be retrofitted on the infrastructure side, though the vast majority of money allocated will go toward the physical extension of the building.

Improvements will impact the nearby roundabout as well; Mines will request that the city of Golden turn over the section of 16th street on campus over to the school. It will then be turned into a pedestrian thoroughfare. With a donor’s assistance, a fountain will be placed in the center of what is now the intersection between Maple Street and 16th Street.

The meeting then moved to discussion of the new residence

hall, which will house 290 students in a serpentine configuration that will feature four levels on one wing and five on the other. Around 18% of rooms will be “super singles,” with a bathroom shared between two such rooms. One new feature of the upcoming residence hall is a concrete-floored “mud room,” which will provide a high-durability work space for residents, as well as a storage space for bikes, skis and other large equipment.

The arrangement of the residence hall is designed to keep sophomores more tightly connected to the Mines community, and to solve housing shortages that currently affect the campus. That said, food services will have to be upgraded in the long term to cope with the increasing demand on the system by incoming students. To cope with parking demands, Mines will reopen the parking lot

near Weaver Towers and the former parking services office, and will build a temporary gravel lot on the former site of the Hall of Justice.

Other meeting topics were briefly discussed. George Funkey of CCIT presented about National Cybersecurity Awareness Month; more on that in this issue’s Tech Break column. At-Large Faculty Representative Rambert Nahm reported that the Faculty Senate has approved the core curriculum change detailed in the last issue of *The Oredigger*, a motion that was approved with one opposed in the Undergraduate Council. Nahm also clarified the pass-fail proposal: up to six credit-hours of free electives per degree may be taken as pass-fail. That said, the proposal has been tabled due to concerns on the part of LAIS and Math faculty that students taking their classes as electives would aim for a “pass” in the form of a D-.

Geek of the Week

...Daniel Houghtaling, Senior: Chemical and Biochemical Engineering

Danial Haughey
Staff Writer

[Oredigger] Do you consider yourself a geek?

[Daniel] Of course, and why would I not be? Even when taking into account Mines' unique spectrum. Though I hardly resemble Webster's first definition... snakes are not to be eaten.

How did you come to be at Mines?

My main influences were FIRST Robotics, a strong influence from my nerdy father and friends (many of whom are here as well), and an enjoyment of the sciences. I spent my middle and high school years in Colorado Springs, Mines was always touted as the best college to foster such callings.

What is your favorite geeky pick up line?

While many better exist, I will always remember the simple, "*I wish I was your derivative so I could lie tangent to your curves.*" During my Freshman year, we were required to attend an appearance by David Coleman, the "Real-Life Hitch," to apparently receive dating advice. He had boasted that he had memorized many a pick up line and challenged the crowd to provide one he didn't know, he obviously lost...

What is your favorite geek joke?

My dad always enjoys sending me all the nerdiest jokes he can find. One of the, let's just say, "nerdiest" was, "Two bears jumped in to a river. Which one dissolved first? The polar bear."

Star Wars or Star Trek? Why?

Do I live in a universe that I must choose? Each has their time and

place and our culture (or at least subculture...) would never be the same without them. Though it depends on which you compare, certain episodes and Episodes are better than others. Though I must say, I do love Tribbles...

What are your hobbies?

Once devoured by WoW, the past few years have seen other hobbies bloom in its absence. I enjoy singing along to music, computer games, hulu-ing, sailing the seven seas of the internet, and pontificating.

What is the geekiest thing you own?

Would have to either be my Cthulhu slippers, Andy Warhol doll, or any number of my WOOT and Threadless shirts (the DeLorean hitting the TARDIS for example), to name a few.

What has been your favorite class at Mines?

While Science in Literature is quickly climbing the charts (Toni, SciFi, Futurama, and Star Trek...), my favorite completed class must obviously be ChemE Field Session! For all of its hardships and sleepless nights, the sense of community between peers and accomplishments are irreplaceable (that and the stories...).

What is your favorite piece of technology?

For future technology, it would have to be Sony's currently patented (Patents 6,536,440 & 6,729,337) Matrix-esque teaching device. Otherwise, I love me some Tokamak. Besides the whole possible energy solution thing, the name is just entertaining to say.

What is your favorite book?

Recently that has come in to

question. Originally "Hitchhiker's Guide to The Galaxy," a battle has begun between that and "Stranger in a Strange Land." Though I must say, they do read very similarly. Maybe someday this hoopy frood will grok the answer. Oh, and "Pride and Prejudice and Zombies" is a close third...

What clubs or activities are you involved in?

I am the vice president of AICHE and am a leader in InterVarsity Christian Fellowship. Have been in a few others over the years but these are the two that have remained constant, and I am glad for it. Come on by either and say hi, would love to have you all.

Who is your role model and why?

Gandhi and Jesus, both broke through the expectations held for them and defied the surrounding culture. Apparently this world just can't accept being told to do the right thing, no matter what façade they present otherwise.

What is your favorite OS? Why?

I have been using Win7 since beta and have really enjoyed it. Also, I recently jailbroke my iPod Touch and have had a great time playing around with Cydia and all that it entails.

What is your favorite formula and why?

Would have to say the central dogma of In-Out+Generation=Accumulation. After all, what really can't be derived from it? I know, I know, besides Schrödinger's (my second, and once drawn on a Macaroni Grill table), it being motivated, not derived and all.



COURTESY DAN HOUGHTALING

If you were stuck on a deserted island and you could only bring 3 items, what would they be?

A beach chair, a laptop with a giant Can-tenna or satellite internet, and a corkscrew to open the coconuts. Who says deserted islands are a bad thing? I thing the idea of defining what you bring is showing that you expect the desertion, not like we plan to be LOST...

If you were to come up with a class for CSM what would it be?

LAIS 1337... Enough said. We

have other foreign languages...

What is one thing you love at Mines? One thing you would like to see changed?

Because she specifically told me not to... besides Diana... I love the sense of community and overall nerdiness, I always feel welcomed. While the outside world views us as antisocial geniuses, many, if not most, break out of their shells. If I could change anything about Mines, I would get the remainder of those in their shells to see how welcoming this campus can be.



Ian Littman
Tech Break Columnist

October is "National Cyber Security Awareness Month," and CCIT at Mines is doing its best to promote the effort. CCIT has taken on the mantra, "Protect yourself. Know Your Threats," and CCIT head of security Phil Romig is presenting a talk this Wednesday at 4 PM in CTLM 102 about keeping your system secure, with prizes at the end of the presentation.

Since most people are connected to the Internet these days, staying safe on the 'net is vital to keeping your life running as smoothly as possible. CCIT is running this program in the hopes of helping themselves (with less problems on their computers and networks) and the users they serve.

The program, whose home on the web is <http://oredig.us/3>, seeks to drive home four major points this year. Read on to find out what they are, how to protect yourself, and other information to keep your computer from being a liability to you and others.

1. Use Antivirus and Anti-spyware software

Viruses and spyware are multiplying daily; you can't afford not to be protected. Having your bank ac-

count information stolen by a Russian crime syndicate is just as bad as being drowned in a sea of perverse popups invited by a chance website visit or "codec download."

Fortunately, affordability for protection isn't an issue; you don't have to pay a penny for antivirus and anti-malware products. Mines has a site license for Symantec (aka Norton) Corporate Antivirus. The software is available to students at no charge via <http://oredig.us/4>. Alternatively, Microsoft's newly released Security Essentials package (<http://oredig.us/5>) and Grisoft's new AVG 9.0 (<http://oredig.us/6>) are no-cost products in the antivirus sector. There's even a student discount for the standard Norton Antivirus product; it's \$19.99 at <http://oredig.us/7>. Some CCIT staff are also using BitDefender antivirus, <http://oredig.us/8>.

One bit of advice is to not run two antivirus products at once: they can conflict and slow things down. Speaking of computer speed, Norton Antivirus is now the king of the category, a far cry from the resource-hungry antivirus applications of a few years ago.

For the anti-spyware side of the equation, grab Spybot Search & Destroy at <http://oredig.us/9>. Lavasoft Ad-Aware (<http://oredig.us/a>) also has a free version and is a high-

powered, legitimate (as opposed to the myriad "anti-spyware" downloads that are themselves malware) anti-malware solution.

If you have a Mac or Linux PC you're relatively safe... for now. You still need to be careful when opening applications however; while the second- and third-place operating systems are relatively immune to drive-by malware downloads, user-initiated "trojan horses" do still exist.

2. Use a firewall

Just because things seem to work better with your computer's firewall down doesn't mean you should remove this layer of PC protection. Many viruses propagate simply by scanning for infectable systems and copying themselves over the network. With a firewall, you stop inbound attacks as well as preventing potentially nefarious software on your own computer from sending personal information to an attacker.

Using a firewall is easy: all modern Windows systems (anything since Windows XP's 2004 Service Pack 2) have the capable Windows Firewall enabled by default. Apple machines have a firewall installed, though it tends not to be enabled on older systems. Additionally, if you're on Mines's campus network or at home and there's a router between you and the cable connecting

your computer to the outside world, you're behind a firewall.

3. Keep up to date

Anti-malware software does no good if it misses the latest threat that hops onto your computer while surfing at the local coffee shop. Keep those products up to date (and run anti-spyware software regularly), no matter how annoying it may be to do so. Similarly, keep your operating system (Windows, OS X or Linux) updated so security vulnerabilities don't allow attackers a path into your PC.

Lastly, check the rest of the software installed on your computer. Packages such as Adobe Acrobat Reader are unfortunate hotbeds of vulnerabilities that could turn a PDF into a WMD.

4. Don't get phished

Mines (or any legitimate organization for that matter) will *never* ask you for your account password or other sensitive information via e-mail. Ever. Also, as a rule, don't click links on unexpected e-mails from financial institutions (including PayPal). Pleas to "update your account information" tend to be from scammers rather than from the organizations they purport to represent.

The best policy here is to go to the website of whoever ostensibly sent you the e-mail to check out that message's authenticity. Make

sure to do this by typing the address directly into your web browser; don't click an e-mail link from an unsolicited message, expecting it to take you to a safe place. Similarly, you can call your financial institution using an official telephone number found somewhere other than the e-mail you just received.

One more thing: if you feel that your system has been compromised, don't do anything important on it until someone else declares it clean. The cleaning process might require a full reformat and operating system reinstallation. It's good to have current backups around, via an online service like Backblaze or on an external hard drive. Top-of-the-line malware is insidious enough that you probably won't know it's there... until a gaping hole shows up in one of the bank accounts whose online service you accessed on your infected computer.

George Funkey, coordinator for NCSAM at Mines, noted that "Protect yourself. Know your threats." is a good motto to live by, online and offline. He made it clear that keeping your system secure shouldn't end at midnight on Halloween; maintaining an updated, protected computer is a year-round job.

Send questions to <http://helpdesk.mines.edu>. Or shoot me an e-mail (liittman@mymail.mines.edu).

Shooting club takes aim out at Colorado Clays

Gene Duran
Staff Writer

Gunshots cracked the sky as the shooting club fired at the clay birds on the shooting range at Colorado Clays. The weather was sunny, and the sky was clear to see the targets.

Around nine students were present to shoot some clays. Freshman Andrew Main explained, "It's nice to get out of studying." The current president Caitlin organized the event and helped with publicity. Caitlin is also secretary of the Platte River Friends of the NRA. The club has gone through many ups and downs, including the loss of their funding in 1998. Only recently has the club received funding again, coinciding with the club being restarted last year with a few members.

Before anyone got to shoot, safety was the number one priority. At the shooting range, a handful of certified NRA instructors talked about how to safely handle a gun. "Don't point guns at people, loaded or otherwise. Always aim at the ground, and keep your finger off the trigger unless lining up to shoot. Ear protection

is to be worn when stepping up to shoot." Gas or recoil-operated shotguns had to be kept aimed at the ground or at the sky with the port visible to see whether it was loaded or not. Break-action shotguns were to be left open unless preparing to shoot.

After everyone had been briefed on safety, many of the students took on some basic training from one of the certified NRA instructors. The students used a 20-gauge shotgun and practiced lining up shots, loading the gun, and calling, "Pull!" as a cue to pull the trigger. Some were surprised by the kick, but most enjoyed the practice.

When lining up to shoot, five people stood in a semicircle around where the "bird" got pulled. The first person to shoot was called the squad leader and was responsible for the safety of the group. The squad leader asked if everyone was ready, and they fired individually and one at a time at their target. After 5 shots, the squad leader asked everyone to rotate so that each shooter had the opportunity to shoot at different angles of vision. After 20 shots, the round was over.

The NRA Field Representative for the state of Colorado, Marc Steinke, was also present for the event. Steinke came from 26 years of experience shooting guns. "I enjoy giving kids a chance to shoot," Steinke said. "The [most fun] times of my life have been with a gun in my hand. If you haven't been shooting yet, it's a lot of fun."

The shooting club meets every Saturday to carpool out to the area in northeast Denver.



ALL PHOTOS COURTESY MINES SHOOTING CLUB

Residence Hall Association recognizes outstanding students and programs

Program of the month: **Energy saving barbecue**



Mines Park Energy Saving Barbeque: The Mines Park Energy Saving Barbeque won the program of the month. Residents of Mines Park demonstrated an amazing turnout, showing their amazing quality of commitment to each other and our environment.

Resident of the month: **Alice Arsenault, Weaver West**



Alice has gone above and beyond as a resident here at Mines. She is a transfer student from New Hampshire, and has great programming ideas from her school in New Hampshire. She helped initiate the planning of a floor camping trip. She helped students get gear from the ORC and helped pick up food from the Slate for the meal substitution. Everyone else was

just along for the ride, but Alice showed leadership by asking about things and questioning if certain things were feasible to do as a floor. She has also taken a lot of the weight off her RA's shoulders by supporting the residents on my floor when the RA is not around to help them during their transition to Mines. She has been a star resident on the floor.

Community of the month: **Morgan Hall 3rd floor**



Morgan Third is by far the best floor on campus! We know when it's time to play but also when it's time to work hard. Other floors don't balance their work and play time as optimally. The girls on this floor are respectful of each other and are a blast to hang out with. We work well together as you can see by our 2,000 piece puzzle (success!). Morgan Third deserves the community of the month award as a recognition for being a spirited hard working group of future engineers.



ALL PHOTOS COURTESY RHA

Resident Assistant of the month: **Clair Bergeson, Morgan 3rd**

Clair is an outstanding Resident Assistant. She is always around if you need someone to talk to, whether it's about homework help or you just need a good laugh. Clair bought a puzzle for the floor that we have worked tirelessly for the past couple of weeks. This

puzzle has continued to be the hang out spot on our floor, even after its completion. Clair is an excellent role model that provides an optimal living environment for the girls on our floor. Without a shadow of a doubt, Clair Bergeson deserves RA of the month.

Raspberry Wheat Ale blends flavors

Kevin Lock
Staff Writer

Raspberry Wheat Ale by Twisted Pine brewery out of Boulder, Colorado is just the ticket when trying to recover from a rough night.

This beer has a cloudy golden color that makes it almost appear to be slightly unfiltered with a high amount of carbonation and a pleasant fruity smell. The wheat flavor is still dominant in this beer; however, it has a subtle hint of raspberry. It is reminiscent of the sparkling ciders enjoyed at New Year's celebrations for those not old enough for champagne.

Unlike most fruit beers, the fruit in this brew is not at all overpowering. Instead, it just adds a little flavor, not unlike adding a large orange slice to your beer. I have never tried to use raspberry instead of orange, but after trying this beer I feel it could be promising venture. The aftertaste is slightly acidic and this is the point when the raspberry flavor really emerges from the beer.

The unfiltered appearance is due to the unpasteurized brewing process, "Established in 1995, Twisted Pine Brewing Company only produces 100% natural, unpasteurized malt ales." As this



KEVIN LOCK / OREDIGGER

produces some different flavors, I personally like the touch that this process adds, by not filtering the beer following brewing much of the sediment that holds a lot of flavor is lost in many beers. If you do find that you like the unpasteurized flavors, the stronger wheat taste and tangy touch, then I recommend this beer and Easy Street Wheat by Odell's Brewing where the beer is completely unfiltered.

A refreshing beer, Raspberry Wheat is not the best of either the fruit beer category or wheat beer category, but with hints of both, it makes for a pretty good change of pace. At \$8.99 a six-pack, I don't think that I will be buying it again, but that doesn't mean that you shouldn't give it a shot.

Each person has their own preference in beers and flavors and if you get one that you don't absolutely love, there will be one out there that you will. With any new beer, enter with an open mind and be ready to discover something new. As the brewers state on the box, "...While we are very serious about the art and business of brewing, we try to avoid taking ourselves too seriously. After all, producing fine beer isn't rocket science, it's something much more important."

Get lost in *The Lost Symbol*

Charlotte Adams
Staff Writer

Dan Brown, author of *The Da Vinci Code*, has once again dazzled readers with a mix of conspiracy theories, science, and history in his latest book, *The Lost Symbol*. This time, the fictional professor, Robert Langdon, tackles the mysteries of the Masons and the most precious of their deep, dark secrets.

The story takes place in Washington, D.C.. Robert Langdon is flown to the city to give a lecture for friend and well-known mason, Peter Solomon. From there, things take an unexpected turn. Instead of giving a lecture, the professor finds himself confronted by a mysterious object. When Solomon is kidnapped, Langdon realizes he must help rescue his friend and mentor. As the night unfolds, secrets are revealed and mysteries abound.

This novel grabs you by eyes and doesn't let go. In the beginning, there is a very mystical sense

to the story. Discussions of Noetic theory and the Masons' secretive history lead you to believe in the plausibility of the improbable.

Brown's technique uses suspense to keep you reading and the plot twists so often you have to stop and reconsider who may, or may not, be on Langdon's side. The entire plot spans only one night, but is so detailed that it seems like every minute in Langdon's world is worth an hour in ours.

With that said, the end is almost depressing. The climax is one last curve; and then, all is revealed in one fell swoop. You learn more about the Masons and their secrets; but after the denouement, you are left thinking, "Wow, after all that, I just don't think I really care."

As expected of a Dan Brown novel, *The Lost Symbol* is packed with action and is an enjoyable read. I would definitely suggest buying or borrowing this book. Conspiracy theorists everywhere are tipping their hats to you, Mr. Brown.

It is so detailed that it seems like every minute in Langdon's world is worth an hour in ours.

Peanut Butter Avalanche

Neelha Mudigonda
Content Manager

This is a great dessert and snack idea that I stole from my roommate. The recipe is based off of the Rocky Mountain Chocolate Factory's.

Ingredients:

1 bag of white chocolate chips, 12 oz
1/4 cup of peanut butter, smooth, not chunky
3 cups of rice crispies
1/2 cup of milk chocolate chips
1-1/2 cups of mini marshmallows

Directions:

Melt the white chocolate chips with peanut butter in the microwave.

Mix the above with rice crispies. When the mix cools down to room temperature, add the marshmallows and the milk chocolate chips to it.

Grease a 9 x 13" pan, and pour the mixture into it.

Press the surface of the mixture with a greased spoon, but not too hard.

Refrigerate for 30 minutes; peanut butter avalanche is now ready to eat and share.

Wild about *Wild Things*

Zachary Sorenson
Staff Writer

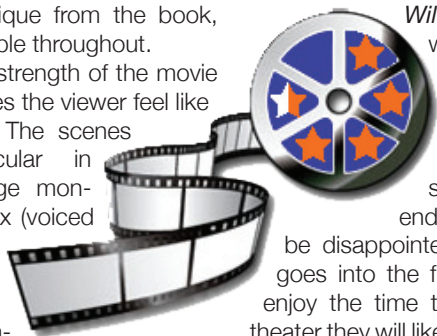
Where the Wild Things Are, released on October 16, propels the viewer into the past. The movie is loosely based on the 1963 children's classic of the same name and takes its audience to a time in their childhood when that book was first read to them. The film's creators managed to turn a picture book less than 50 pages in into a movie which spans an hour and a half. The film contains all of the characters in the book and the book's plot is incorporated into the movie. However, the movie manages to do this spectacularly in an odd way, unique from the book, that is enjoyable throughout.

The main strength of the movie is that it makes the viewer feel like a kid again. The scenes are spectacular in scale as large monsters and Max (voiced by Max Records), the story's protagonist, traverse through a boundless world that could only be imagined by the most childlike viewer. At times, the viewer may seem lost as they try to explain why a certain character acts a certain way, but this is exactly how a child views

almost everyone around them. The movie does an excellent job at wrapping the viewer in, making the viewer feel included in the fun Max has with his new friends.

Despite its strengths, the film suffers from a reliance on the unbelievable and fantastical. Max and the monsters interact with their world in a way so unbelievable that it can distract from the fun of the movie. As the movie's strengths draw from its near-perfect imitation of childhood, the weakness could be seen by some as a strength. Another critique is the lack of a good ending; the final scenes fails to satisfy the viewer.

One must go into *Where the Wild Things Are* with a certain mind-set. If the viewer enters with the expectation of feeling satisfied at the end, they will likely be disappointed. If the viewer goes into the film expecting to enjoy the time the spent in the theater they will likely be happy with this film. *Where the Wild Things Are* gives the viewer a chance to go back and remember when life was simpler. Despite the lack of any strong resolution and several flaws in logic, this movie provides an entertaining experience.



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Home grown: Colorado locals showcase musical prowess

Tim Weilert
Content Manager

The past couple of weekends have been an invigorating mixture of sleep, homework, and concerts... lots of concerts. All of the shows I attended during the last fortnight were unique in that every single act was a Colorado-local band. While “local band” may often be a euphemism for “crappy band,” that stereotype could not have been further from the truth.

The Hot Congress Prevue: More of a house party than an entirely legitimate concert, the Hot Congress music collective descended on a small apartment in downtown to celebrate the release of their first compilation. Lo-fi and grungy sounds were well supplied by the likes of The Jim Jims and Old Radio.



Everything Absent or Distorted Farewell Show: It's always hard to see bands call it quits. Fortunately for fans, Everything Absent or Distorted decided to go out with one of the most rowdy and joyful farewell shows I've ever witnessed. Playing through literally every song the group has ever written, EAoD went out on top. Also playing that night: Jim McTurnan & The Kids That Killed The Man and The Knew.



ALL PHOTOS TIM WEILERT / OREDIGGER

Gregory Alan Isakov Vinyl Release Show: Folk singer-songwriter Gregory Alan Isakov sold out the Bluebird with a show that doubled as a release party for the vinyl edition of his album *This Empty Northern Hemisphere*. Other locals Danielle Ate The Sandwich and Eleanor rounded out the night of melodic and mellow music.



Hello Kavita Album Release Show: The Hi-Dive, one of South Broadway's most popular venues, was packed with friendly faces and well-wishers as Hello Kavita took the stage in support of their new release *To A Loved One*. Openers Houses and It's True provided an excellent warm-up for the classic-rock-esque show.



Scare seekers rejoice at Denver's haunted houses

Charlotte Adams
Staff Writer

The holiday season is here, and it starts with Halloween. One of the best parts of Halloween are the goblins and ghouls in haunted houses. It is not only an action packed night of startles and screams; it is a great thing to do with friends. Here's a terrorizing trio of some of Denver's favorite haunts.

Haunted Field of Screams

104th and Riverdale in Thornton

This is one of Denver's finest corn mazes. You start your journey in a small room. The suspense gets your adrenaline pumping, while you wait for what lies ahead. As you navigate the maze, there are several more scare points that are themed to spook you in different ways each time. Meanwhile, you wander through the dark corn waiting for someone (or some thing...) to pop out at you.

The one downside to this haunted house is that it is outside. If you go on the wrong night, you could freeze waiting in the long line to get to the entrance of the maze. There is also a mud concern; if it has rained or snowed recently, you should make sure to wear shoes that

you don't mind ruining. Despite that, the scares are worth it. I give this haunted house three jack-o-lanterns out of five.

Frightmare

108th and Olde Wadsworth in Westminster

According to the Frightmare website, this is the only “real” haunted house in Denver. I was told by security that one of the barns on the property really is haunted. Whether this appeals to you or not, it is a frighteningly awesome haunted house. Not only do you have actors that spook you, but they use elements that are made especially to play on your psychological fears. On your journey, you are subjected to small spaces, total darkness, and, of course, strobe lights.

This haunt is mostly outside and can get muddy. A plus, though, is that when you are in the line you are not in one long extended line, you're all bunched together. You can suck up the body heat when you are in the middle. This is overall a great haunt. I give it four ghosts out of five.

City of the Dead

1-76 and 88th Ave. at the Mile High Flea Market in Commerce City.

As the name suggests, this is a zombie-themed haunt. You are ushered into a “zombie con-

tainment area” where the living dead have created a terrible and frightening world for themselves. You wander through this city trying to find a way to escape. The scares here are non-stop. You hardly get a chance to recoup before another ghoul is coming after you. A plus to this haunted house is that it is all inside. The line runs past a concession stand, so you can stop and grab a bite to eat (brraaiiinnss) if you're bored or hungry. There are also little shops where you can find strange and interesting goodies. Based on the warmth and the quality of the scares, I give this haunt four and a half zombies out of five.

Here are a few tips for a devilishly delightful haunted house visit. Most haunted houses are outside, or at least the lines are; so you should make sure to wear warm clothes and layers, and shoes you could get dirty. Try not to bring bags inside. Take only what is necessary or you could wind up dropping something valuable as you run away. Don't forget, the actors can't touch you; so don't touch them (and by touch, I mean punch!). Hopefully this will help you to get the most out of your haunted house experience. Good luck and have a ghoulish good time.



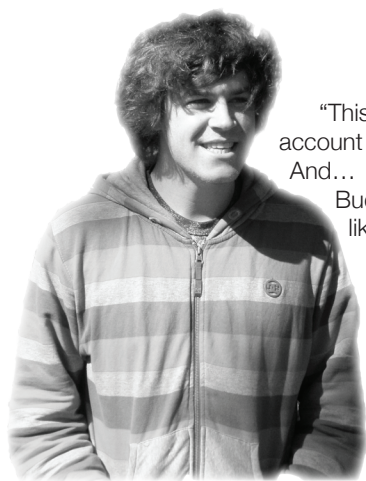
Minds at Mines

Fall break

Roby Brost
Staff Writer

The rotation of the earth in its diurnal orbit around the sun causes the balmy summer weather to turn to the crisp, cool, and occasionally snowy days of fall. Perhaps a less concrete correlation can be made between the fall of multihued leaves and the fall of motivation levels in the students on the Colorado School of Mines campus. Nonetheless, it is a common occurrence to feel significantly less motivated as the air fills with that special crunch associated with dead foliage. Along with that increasingly debilitating lethargy comes a ray of hope as persistent as the red boxes for wrong answers in provided helpfully by LON-CAPA - Fall break. Two entire days with which Mines students can do entirely as they please (to a limited extent anyway).

It is not, in fact, the quantity of days or the multitude of minutes that make this break so special, but rather the sheer relief that comes from having a couple days to catch up on classes and sleep in a little. As reassuring in its appearance as the thought that there might, in one try, be a green box, fall break provided an opportunity to get caught up on both sleep and workload. Despite those two constants, many Mines students also found opportunities to relax and recharge.



"This weekend I made an E-harmony account and looked for potential girlfriends. And... this one girl, she was six-two and Buddhist and it seems like she might like me."

Mason Traylor

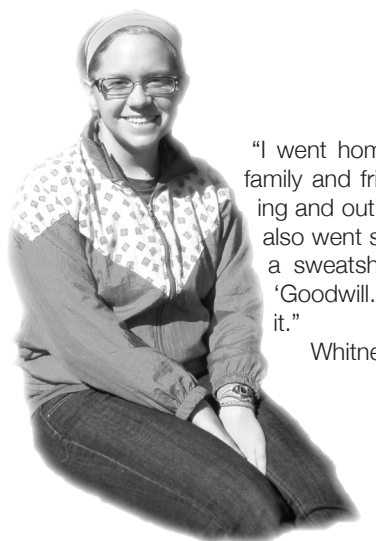
"Over fall break I went skiing in Arapahoe Basin, broke my collarbone and sat around with some Vicodin. At least it was the third day... I mean, it was still fun."

Will Boyer



"I went home to Omaha, Nebraska, to see my family and friends. It was really fun. I went thrifting and out to eat with a lot of different people. I also went shopping with my Mom. I even found a sweatshirt in the Salvation Army that said 'Goodwill.' It was pretty neat, and I had to get it."

Whitney Welch



"Over fall break I played a lot of video games. And partied... I did some homework in there too, but pretty much played video games; twenty hours in four days."

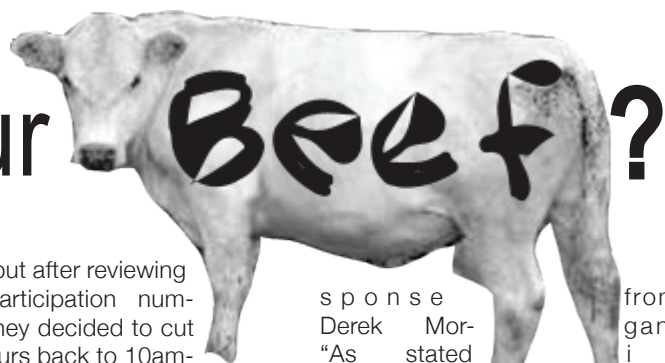
Dan Anderson



PHOTOS ROBY BROST / OREDIGGER

Editorials Policy
The Oredigger is a designated public forum. Editors have the authority to make all content decisions without censorship or advance approval and may edit submitted pieces for length so long as the original meaning of the piece is unchanged. Opinions contained within the Opinion Section do not necessarily reflect those of Colorado School of Mines or The Oredigger. The Oredigger does not accept submissions without identification and will consider all requests for anonymity in publication on a case-by-case basis. Submissions less than 300 words will receive preference.

What's your Beef?



Jaime Thorpe
Student Body President

"Registration problems - the registrar has too many rules we don't know about which causes us to miss out on registration opportunities. Also the service at the registrar is generally poor."

Lara Medley, the registrar, has responded directly: "I'm sorry to hear that a student has not received good service at my office. We try very hard to ensure that each student receives the information needed, the process completed, or the referral necessary so that the student's issue is resolved. While I'm not sure to which rule the author refers, I am happy to meet with students in person to resolve any difficulties and present options. Each fall and spring term I send out three e-mails to all students that contain upcoming deadlines, information updates, and things to be aware of for that part of the term. Additionally we print information in the Bulletin and on Trailhead. We also have a new "Registrar's A-Z" on the Registrar's website that I invite everyone to use. If you find that there is a question not listed, let us know and we will add it! On the topic of rules... ah, yes; we have many rules. It is true. The purpose of the Registrar is to ensure that we are following Federal law, State law, CSM faculty and administrative policies and rules, and that we keep to deadlines so that the School runs smoothly. We try to make this all as user-friendly as possible, but understand that at times we need an outside perspective and positive changes. I invite the author and all other students to send me an e-mail any time with suggestions. If instead you would like to meet, we can make an appointment."

"Why can't the Rec Center be open later than 6pm on Saturday? Even 7pm would be better for those who workout before dinner."

During its first year of operation, the Recreation Center was open on Saturdays from 10am-

8pm, but after reviewing the participation numbers they decided to cut the hours back to 10am-6pm. Currently they have 160 to 200 participants every Saturday, which is an average of 25 people per hour. The one semester they were open from 10am-8pm they had only 7-10 participants during the hours between 6pm-8pm, so the number of people did not justify two hours of operation. If there is a significant push from the students to extend the operating hours of the Rec Center, it will be considered. In order to start the process, students who are interested should set up a meeting with Clay Brown, Clay.Brown@is.mines.edu, the Director of Campus Recreation.

"Who's the jerk that put a frisbee golf course in an apartment area (Mines Park), and who pays for my broken windows?"

The Frisbee golf course at Mines Park was designed and implemented as a Senior Design Project. Although there is the risk of occasional damage to school property, the benefits of the Frisbee golf course to students outweigh the costs. In the event a window is broken and the occupants are not responsible for the damage, they would not be held financially responsible.

"Aramark sucks! Competition between vendors breeds excellence."

CSM has a contract with ARAMARK to provide dining service on campus. When that contract expires, CSM will undertake an RFP process to gather competitive bids from interested vendors to provide dining service for the next contract period.

"Water ballooning [on the M-Climb] should be reinstated! It's been a tradition forever and it is fun for everyone. They do not hurt when you get hit by them. If Mines wants to be 'greener' and uses that as an excuse, they should first get rid of the petroleum department. That would be green."

I received the following re-

sponse from Derek Morgan: "As stated in the original notice to campus, throwing water balloons during the M-Climb will not be allowed because it sends an inappropriate message to our new students and to the community. Water balloons have the potential to hurt people, the remains litter the hill side, and they do not set a "Welcoming" tone to the start the year."

"It's ridiculous that at a school of engineers the behind the scenes computer people can't consolidate to one password for ADIT, Trailhead, my-mail, and probably Mac!!"

For security reasons the computing department on campus, CCIT (Computing, Communications, and Information Technologies) does not believe that a single password for all accounts is advisable. They are constantly trying to find the best balance between ease-of-use and strong security, and are actively trying to reduce the number of passwords needed by students by moving as many resources as possible to either ADIT or MultiPass. Eventually they would like to try and collapse the ADIT and MultiPass into a single system, however at the moment there are serious technical challenges integrating Linux and Microsoft Windows. Essentially, CCIT does not think a single password across all systems is a good idea, but they do see some places where the number of passwords can be reduced and they are working on those.

There were 3 additional comments pertaining to the Slate Cafe, so I turned them into the Management Office for them to take care of.

If you do not see improvements made in the areas you have submitted comments about within the next month, please let me know and I will inquire further. Remember, there is a comment box in the Slate as well so you can tell your problems directly to the source.

Tim's two cents

How balloon boy destroyed America

Tim Weilert
Content Manager

Is nothing holy anymore? Can't a day go by when the good name of the state of Colorado isn't soiled? I don't even watch television, yet I still managed to get bamboozled by the most ridiculous "news" story of the year.

Though my complaints against 'balloon boy' are numerous, the largest is this: A thin layer of aluminum revealed that America has nothing better to do than jump at the first remotely interesting pop-culture phenomenon to pass by. This is disgusting.

While this incident is slightly

more humorous than a cracked-out Lindsay Lohan, or a bald Britney Spears, the premises are the same. However, this thing did something that pop-divas have not managed to do: make Colorado a laughing-stock.

It's bad enough that people from some parts of the US think that Coloradoans still ride horses and live in the wild west (this is true! It is a revelation that came about during the DNC last year). Now the nation also associates Colorado with the sheer ridiculousness of reality television antics.

Balloon boy is not news! What really gets me is that people every-

where were so worried when they thought a boy named Falcon (don't even get me started on that one) was in danger of possibly dying.

Considering the costs causes my head to spin. A full-scale search effort involving police and helicopters took place while the parents knew the whereabouts of their son the entire time. It is my opinion that the people responsible for this (Mr. & Mrs. Heene) should be required to do more than simply apologize. They must be held accountable to the law for their actions.

They took something more than monetary and human resources, they took our dignity.

CSM women's soccer dominates competition

Melinda Bartel
Staff Writer

The CSM women's soccer team is having a stellar season. They are currently 16-3, have had twelve shut out games, and are working on a seven game winning streak.

The Orediggers won their game against Colorado St.-Pueblo 4-0 last Friday, and posted a shut out against New Mexico Highlands with a score of 2-0.

Head coach Frank Kohlenstein is excited about his team's success, "This is the best season that the team has ever had. The games we should be winning, we're winning. In the past, we've lost the wrong games." He continued, saying, "Everyone on the team is very focused on making sure they're doing their particular job. We have two good senior leaders that set examples for the team, Kayla 'Pocket Rocket' Mitchell and Allison 'Tex' Heeg. And we've had some freshmen come in and do a great job filling the spots of the seniors we lost." Mitchell is the all-time leading goal scorer for Mines.

Heeg agreed that the team has been working exceptionally hard. She explained, "Everyone on the team has stepped up the intensity and commitment in order to pull out wins. Right now the team already has more wins than we ever had in the past and the season isn't even over yet – that's very ex-

citing!"

The final regular season game will be a home game against Colorado Christian on November 1 at 12:00 PM. The postseason will kick off with the RMAC tournament, for which the team has already qualified.

They are also on their way to qualify for the NCAA tournament. Last year, the Mines women's soccer team went to the tournament but lost in the first round. "Our goal this year is to make it further in the NCAA tournament," Kohlenstein said. "No Mines athletic team has made it two years in a row. Every match we play, we play our best and we get better. I appreciate how hard the team has worked, but I won't be fully satisfied until they win the National tournament."

Heeg agreed, "My goals for post season are to go farther than the NCAA Tournament than last year. I might be a little ambitious when saying this – but I want to go to Tampa for the Final Four!"

She continued this sentiment, explaining, "I am really proud of the results the team has accomplished so far this season. However, the season is not over yet and I really hope that we finish strong. I think I'm speaking for the whole team when I say when we win, we are having fun, so let's keep winning."

The Oredigger's next game will be at home on November 1 against Colorado Christian.



Mines football defeated Chadron state in a 30-27 victory on Saturday.



CSM wrestling team gears up for season

Anthony Perez
Staff Writer

The Mines wrestling team is gearing up for a great season. Their season starts November 14 at the University of Wyoming, yet their season already holds a lot of promise. At this point, the athletes have their eyes set on the NCAA Division II Championships in March 2010, where they hope to have a strong showing. "We expect everyone to qualify for nationals," said Coach Dan Lewis.

The Orediggers are already showing promise as many great wrestlers are returning to compete. Jordan Larsen was ranked seventh in the NCAA Division II Wrestling Coaches Association Pre-Season Poll. "He had a great year last year and he has the will to win and a will to train to win... He's got a good shot at placing in nationals." Additionally, Jesse Snider competed in the NCAA Division II National Championships last year. "Chad Lousberg is a great competitor and is returning to wrestle," said Coach Lewis. Also returning is sophomore Ryan Swanson who placed fifth at the NCAA Division II West Regionals last year.

The team has a lot more depth than in the last few years. "In previous years, team numbers were real small, eighteen to nineteen people,"

said Coach Hutchens. This posed a problem as the team was forced to forfeit a weight class or cycle in freshman. However, they now have thirty-seven wrestlers on the roster. One of the reasons was a high turnover in upperclassmen. At an academically rigorous school, it is difficult to compete in a NCAA sport while turning in your homework on time. To combat this, the Wrestling team has started a study session. "We also teach the proper techniques to be competitive. College wrestling is a different sport from high school wrestling," said Coach Lewis.

The wrestling team will also be getting a new wrestling room. Half of the old swimming pool will be converted into a 60' by 60' wrestling room while the other half is going to become an experimental wind tunnel. Currently, the team shares a cramped practice space in the Gymnasium with the other Mines sports.

"It's encouraging when you start to see success," said Coach Hutchens. And the Mines Wrestling team is poised for a successful season. As the team begins to grow in numbers, they also continue to grow in strength. You can support the Orediggers January 7 as they face off against Western State at Lockridge Arena or February 17 as they wrestle Mesa State.



CSM women's volleyball team won nine games in a row before losing to UCCS in four games on Saturday October 24th.



ALL PHOTOS STEVEN WOOLDRIDGE / OREDIGGER

Fool's Gold

“Frightfully funny.”



HalloweenNerd Costumes of 2009

Mike Stone
Content Manager

- 10) Princess Leia in a Gold Bikini
- 9) The Joker after rehab
- 8) Obama's Dog
- 7) Swine Flu
- 6) Death Panel
- 5) Rosie O'Donnell
- 4) Paris Hilton's Little Black Book
- 3) Iranian Nuclear Dud Missile
- 2) Paris Hilton's Little Latino Book
- 1) ODS

Diametric Drive Perfected

Janeen Neri
Space Cadet Extraordinaire

A physics grad student at CSM has just completed the world's first diametric drive. "Excited," said discoverer Wallace Mick, "is a bit of a weak term for how I feel right now." Mick explains, "the concept of my invention has been around for years now – think 'warp drive' – but its success hinged on being able to locate some negative matter. While it's perfectly theoretically possible for negative matter to exist, it tends to run away from positive matter, so it's not the easiest thing to catch in the universe." For Mick, the breakthrough came courtesy of negative matter's equally strange sister, negative energy. "Speaking very simplistically

here," said Mick, "energy and matter are kind of like ants: if you see only one of them, you're missing something. I thought if I could find that negative energy that people suspected was making the universe expand, matter shouldn't be far behind! And I was right!" What Mick did not anticipate, however, was where he would find this negative energy. As he put it, "it's not like I can go down to Mines' dinky little particle accelerator and bang stuff around until negative energy pops out. Surprise!" So, how did he succeed where hundreds of modern physicists have failed? "Obviously, when you stop to think about it," Mick offered, "I just gathered a bunch of [CSM] freshmen and sophomores into an empty lecture hall for a 'study session.' You should've seen the fireworks! Give 'em two minutes and they start moaning to each other then, BAM! So much negative energy pouring off these blokes, they almost had a stable wormhole going... I was seriously impressed. And, you know, disgusted at the same time." Once Mick found his negative energy, it was a "relatively simple matter – no pun intended – to get together what I needed for that diametric drive." Mick said he currently uses the drive to get from CTLM to Slate Café at trans-light speeds. "Don't look at me like that!" Mick added hastily, "A few of us [grad students] like the convenience of Slate. And that lunch line! If you don't get there at least 10 minutes to noon," he shook his head, "you're creamed."

Meyer Radiation Leak Kills Tree Across Campus

Spencer Nelson
Senior Nuclear Biologist

A large dose of radiation emanating across the Mines campus has quickly killed many surrounding trees. Initial, the impacted area of this tragedy was expected to only be Kafadar Commons, however; it has now become clear the leak has affected the entire campus and is spreading throughout the city of Golden. Experts are unsure where the tree slaughter will stop, but many are predicting a full massacre. The incident occurred last Tuesday, in what the head of the Physics Department, Charles Bacon, is calling, "a bad experiment gone too far." Meyer Hall experienced a massive loss of containment in a basement laboratory. In their efforts to kill a cat belonging to the professor of their Physics 2 class, a few intoxicated students dumped several containers of highly-radioactive uranium all over the cat. Jason Daniels, one of the accused students, attempted justifying his actions, saying "Physics 2

is just a terrible class! Whenever I saw the professor with his cat looking 'oh so happy,' all I could think of was killing that cat." The professor asked to remain anonymous. Some students are stricken with grief from this event. "It's terrible to see all the dead trees across Kafadar," wept student Jeremiah Heymann. "The yellow leaves slowly falling to the ground is just crushing!" Some students, however, seemed to enjoy the wide-spread death. "The dead leaves are so much fun to jump in, I just might pee myself," commented student, Friedrich Marlowe. In addition to the leaves falling from the trees, much of the grass has turned brown and many flowers have died. The only plants not exhibiting an adverse reaction to the radiation are a variety of pine and evergreen trees. Another side effect of the radiation since its release has been local climate change. The temperature of Mines and the surrounding area is expected to plummet over the next few months and remain chilly until mid-April. "A real-life nuclear

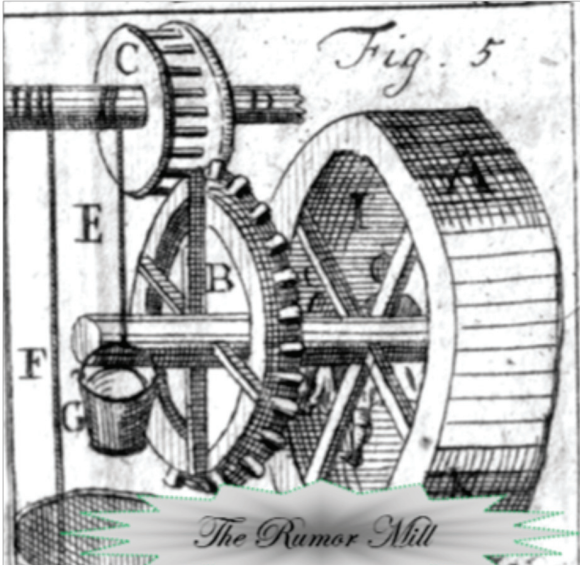
winter," considered John Crutzen, a physics professor whose research is in the area of nuclear explosions. "I've always wondered if it was possible," said Crutzen. "Now I know it's true!" Although radiation is typically dangerous to humans, the school encourages students to "suck it up and live with it," as Ugrad_Stu said in his latest spam email. "If you aren't going to get a day off for 3 feet of snow, you sure aren't going to get it off for a radioactive spill." For safety precautions, students are asked to wear heavy coats, scarves, hats, long pants, gloves, and boots. To reduce exposure, students should spend as little time outside as possible. If prolonged exposure is inevitable, students are encouraged to wear even more clothes and duct tape to keep out the radiation. The condition of the professor's cat that had the uranium dumped on it is uncertain. Dr. Albert Schrödinger, who is taking care of the cat, has not looked at it yet, but is pretty sure the cat is both alive and dead.

THE RUMOR MILL

Campus rumors debunked

Mike Stone
Researcher

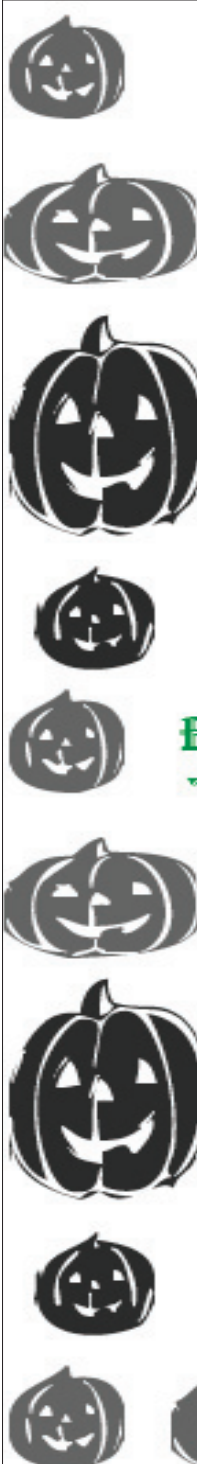
- Rumor:** Early snow fall gives campus maintenance crew too much to handle
Status: Confirmed
Description: The Sorority Hill half-pipe is only a 1/3 done (making it a sixth-pipe)
- Rumor:** Local Golden residents will take their children Trick-Or-Treating through the dorms this year
Status: Busted
Description: After the 19-hour "Snickers Hostage Holdup" last year, administrators started waving red flags



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— solution —

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3	1	2	6	4	7	8	5	9
9	6	5	2	8	3	1	4	7
4	7	8	5	9	1	3	2	6



DEADLINES

BADMINTON SINGLES
THURS. 10/29 @5PM

DODGEBALL
ALL SPORTS TROPHY
THURS. 11/5 @5PM

CSM CLUB AND IM SPORTS

GET OUT AND PLAY!

BOWLING 4PER TEAM
ALL SPORTS TROPHY
THURS. 10/29 @5PM




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